



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
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**D206-648-013**  
**Job Sheet 197367**



**Part No:** D206-648-013

**Job Qty:** 2 pcs

**Part Name:** Ground Handling Wheel Modification



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 7/5/19

**Job Tracking No:**

**Due Date:** 7/29/19 ✓

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:** ~~CER 2019-4-158~~ order 15223

**Note:** DWG REV B IPP Rev:A 05.09.23 New issue KJ/JLM IPP Rev:B 07-12-05 ECN 1080p DD verified by:

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation              | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off                              |
|----------|------------------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|---------------------------------------|
|          |                        |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |                                       |
| 110      | Packaging 1 - Pick Kit | 2 pcs | 7/29/19    |             | 0.00         | 0.00       | Packaging 1 - 1       |           | <b>DA</b><br><b>26</b><br><b>9-89</b> |
|          |                        |       |            |             |              |            | Packaging 1 - 2       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 3       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 4       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 5       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 6       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 7       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 8       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 9       |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 10      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 11      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 12      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 13      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 14      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 15      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 16      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 17      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 18      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 19      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 20      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 21      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 22      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 23      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 24      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 25      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 26      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 27      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 28      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 29      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 30      |           |                                       |
|          |                        |       |            |             |              |            | Packaging 1 - 31      |           |                                       |



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**Container No:** S202921



**Part:** D206-648-013

**Job No:** 197367

**Serial No/Batch:** S202921

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions:** Various STC's

**Date:** 08/06/19

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|                                                                                                           |       |         |           |                        |                   |
|-----------------------------------------------------------------------------------------------------------|-------|---------|-----------|------------------------|-------------------|
|                                                                                                           |       |         |           | Packaging 1 - 32       |                   |
|                                                                                                           |       |         |           | Packaging 1 - 33       |                   |
|                                                                                                           |       |         |           | Packaging 1 - 34       |                   |
|                                                                                                           |       |         |           | Packaging 1 - 35       |                   |
|                                                                                                           |       |         |           | Packaging 1 - 36       |                   |
| 120 QC 4                                                                                                  | 2 pcs | 7/29/19 | 0.00 0.00 | QC 4 - 28              | DAS<br>75<br>9-89 |
|                                                                                                           |       |         |           | QC 4 - 58              |                   |
|                                                                                                           |       |         |           | QC 4 - 69              |                   |
|                                                                                                           |       |         |           | QC 4 - 9               |                   |
|                                                                                                           |       |         |           | QC 4 - 46              |                   |
|                                                                                                           |       |         |           | QC 4 - 68              | AUG 0 6 2019      |
|                                                                                                           |       |         |           | QC 4 - 72              |                   |
|                                                                                                           |       |         |           | QC 4 - 74              |                   |
|                                                                                                           |       |         |           | QC 4 - 75              |                   |
|                                                                                                           |       |         |           |                        |                   |
| 130 Packaging 3-1 - Stock - B4B                                                                           | 2 pcs | 7/29/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  | DAS<br>75<br>9-89 |
|                                                                                                           |       |         |           | Packaging 3 - 2 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 3 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 4 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 5 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 6 - B4B  | AUG 0 6 2019      |
|                                                                                                           |       |         |           | Packaging 3 - 7 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 8 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 9 - B4B  |                   |
|                                                                                                           |       |         |           | Packaging 3 - 10 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 11 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 12 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 13 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 14 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 15 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 16 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 17 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 18 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 19 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 20 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 21 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 22 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 23 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 24 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 25 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 26 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 27 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 28 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 29 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 30 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 31 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 32 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 33 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 34 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 35 - B4B |                   |
|                                                                                                           |       |         |           | Packaging 3 - 36 - B4B | DAS<br>21<br>9-89 |
| 135 DC - 1 - B4B                                                                                          | 2 pcs | 7/29/19 | 0.00 0.00 | DC - 1 - B4B           | AUG 0 6 2019      |
|                                                                                                           |       |         |           | DC - 2 - B4B           |                   |
| 140 QC 21 - FG                                                                                            | 2 pcs | 7/29/19 | 0.00 0.00 | QC 21 - FG - 21        | DAS<br>21<br>9-89 |
|                                                                                                           |       |         |           | QC 21 - FG - 70        |                   |
|                                                                                                           |       |         |           | QC 21 - SA - 53        |                   |
| Part Op 110 - (Pick Kit)                                                                                  |       |         |           |                        |                   |
| Descriptions: 120 - (QC4- 100% Inspect kits for completeness)                                             |       |         |           |                        |                   |
| 130 - (Identify as per dwg & Stock Location: _____)Identify and pack for shipping as per PPP D206-648-013 |       |         |           |                        |                   |
| 135 - (Document Control)Photocopy bluefile and create labels per PPP D206-648-013 CHG002                  |       |         |           |                        |                   |
| 140 - (QC21- Final Inspection - Work Order Release)                                                       |       |         |           |                        |                   |

011221

## Job BOM

| Part / Item   | Component Name     | Quantity      | Operation                  | Container |
|---------------|--------------------|---------------|----------------------------|-----------|
| AN3C37A       | Bolt               | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5198263   |
| D2652         | Bushing            | 16 pcs (8 ea) | 110-Packaging 1 - Pick Kit | 5195628   |
| D3414-041     | Lug                | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5097224   |
| MS21043-3     | Nut                | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5176493   |
| NAS1149C0363R | Washer (AN960C10 ) | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5181423   |

## Job Allocations

| Operation                  | Component Part | Required | Inventory | Allocated |
|----------------------------|----------------|----------|-----------|-----------|
| 110-Packaging 1 - Pick Kit | AN3C37A        | 8        | 19        | 0         |
|                            | D2652          | 16       | 481       | 0         |
|                            | D3414-041      | 4        | 26        | 0         |
|                            | MS21043-3      | 8        | 1,018     | 0         |
|                            | NAS1149C0363R  | 8        | 695       | 0         |

## Part Specifications

Specifications could not be found.

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                   | FAULT CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                        |  |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |